

FIG. 1

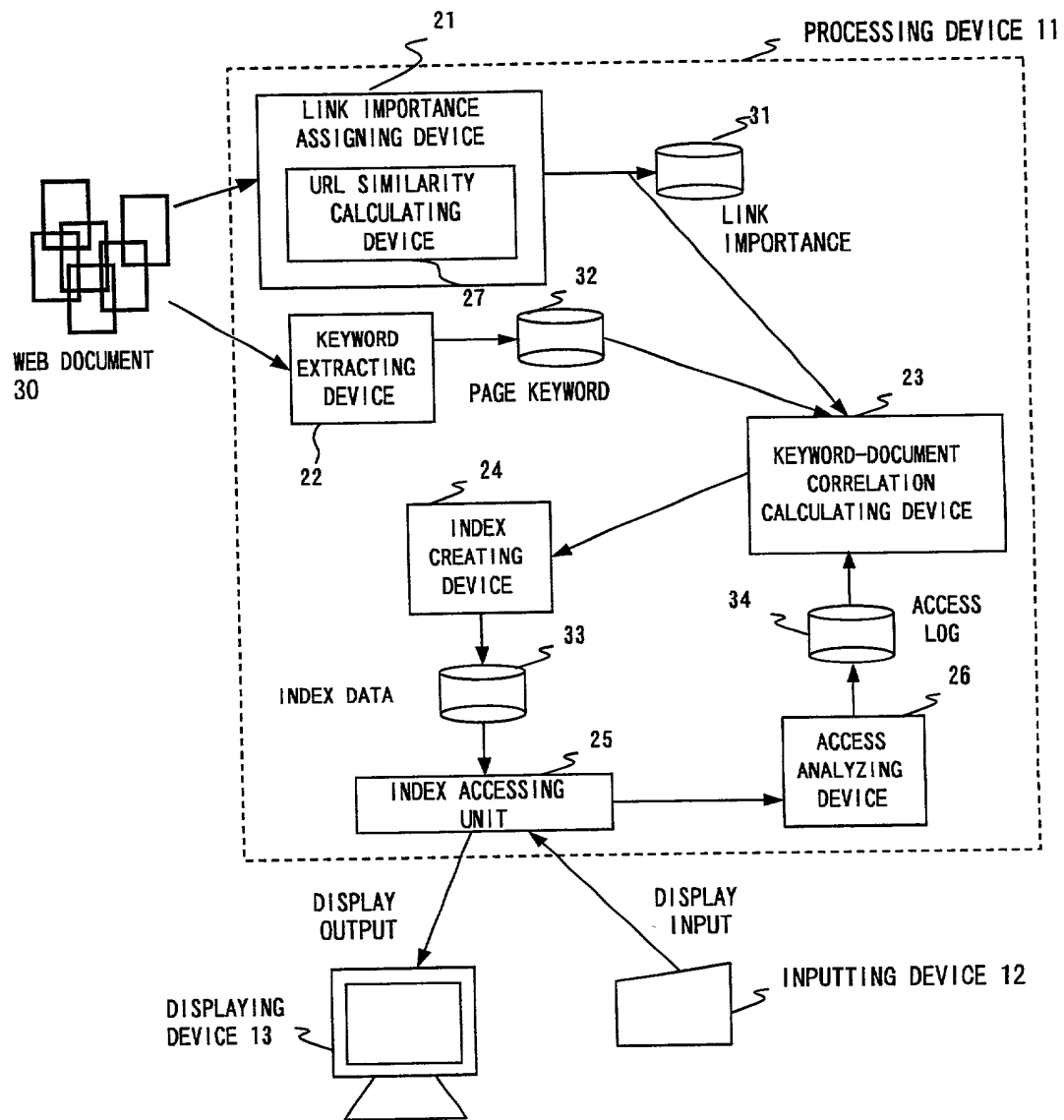


FIG. 2

DOCUMENT ID	URL	TITLE	REFERENCED DOCUMENT	LINK IMPORTANCE
00001	http://www.fujitsu.co.jp/	FUJITSU HOME		1023
00002	http://www.kantei.go.jp/	OFFICIAL RESIDENCE OF PRIME MINISTER		2055
⋮				

DOCUMENT INFORMATION TABLE 41

DOCUMENT ID	URL SIMILARITY
00006	3
00138	2
⋮	

REFERENCED DOCUMENT TABLE 42

FIG. 3

KWD ID	REPRESENTATIVE WORD	OCCURRENCE DOCUMENT
001	コンピュータ (konpyu-ta: COMPUTER)	
....		

KEYWORD TABLE 51

KEYWORD	PRONUNCIATION CHARACTERS	KWD ID
computer	COMPUTER	001
コンピュータ	こんびゆた	001
プログラム	ぷろぐらむ	002
⋮		

KEYWORD RELATION TABLE 52

DOCUMENT ID	OCCURRENCE
00001	8
00003	1
⋮	

OCCURRENCE DOCUMENT TABLE 53

FIG. 4

100

CHARACTER STRING	FOLLOWING CHARACTER STRINGS	KEYWORD STRINGS
TOP	あ (a), い (i), ..	
あ (a)	あいぼ(aibo), あお(ao), ...	
あいぼ (aibo)		相棒 (aibou:MATE), アイボリー(aiborī : IVORY).
あお (ao)	あおぞ(aozora)	青 (ao: BLUE), 蒼 (ao: DARK BLUE), ...

INDEX INFORMATION TABLE 61

KEYWORD ID	CORRELATED DOCUMENT ID STRINGS
093	0005, 0008, ..
321	0004, 0008, ...
....	

CORRELATED DOCUMENT TABLE 62

DOCUMENT ID	CORRELATED KEYWORD ID STRINGS
0005	093, 099, 122, ...
0008	093, 156, 321, ...
.	
.	
.	

CORRELATED KEYWORD TABLE 63

F I G. 5

DATE AND TIME	KWD ID	DOCUMENT ID
200001121436	003	00123
200001121437	005	00054
.		
.		
.		

FIG. 6

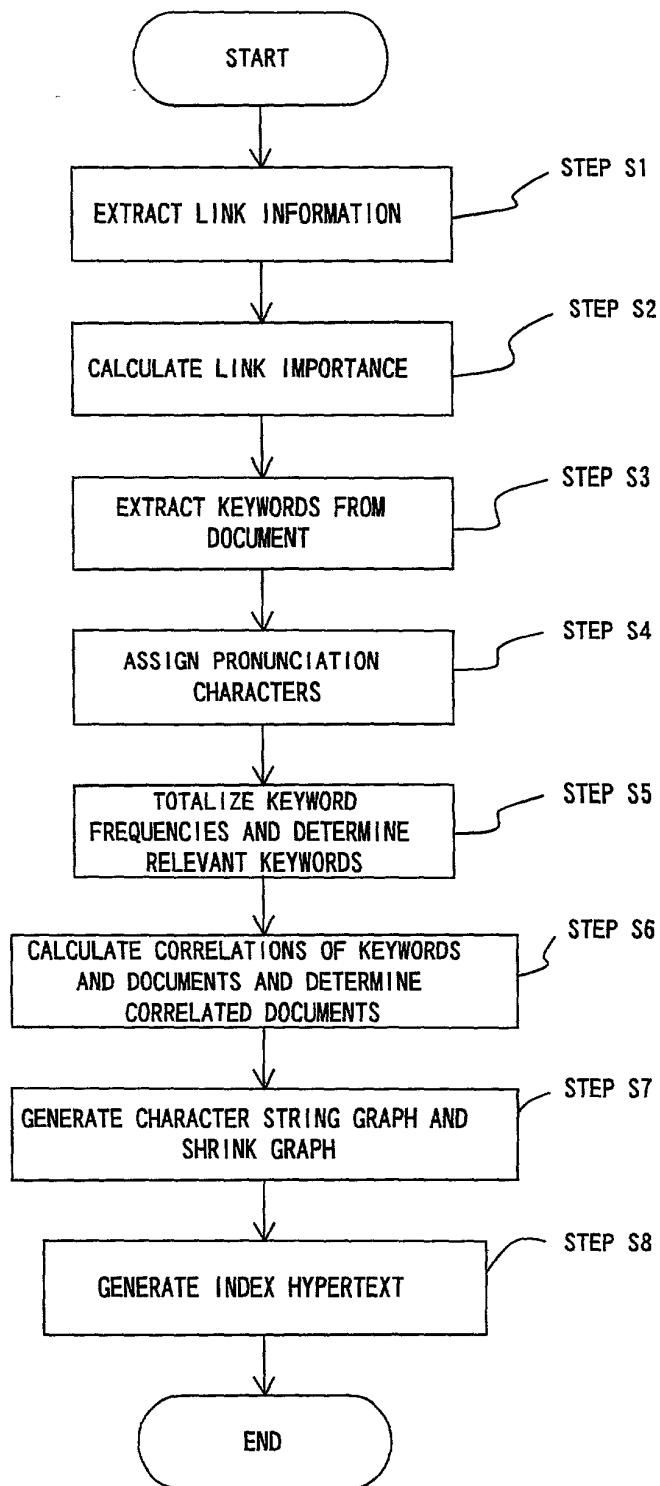
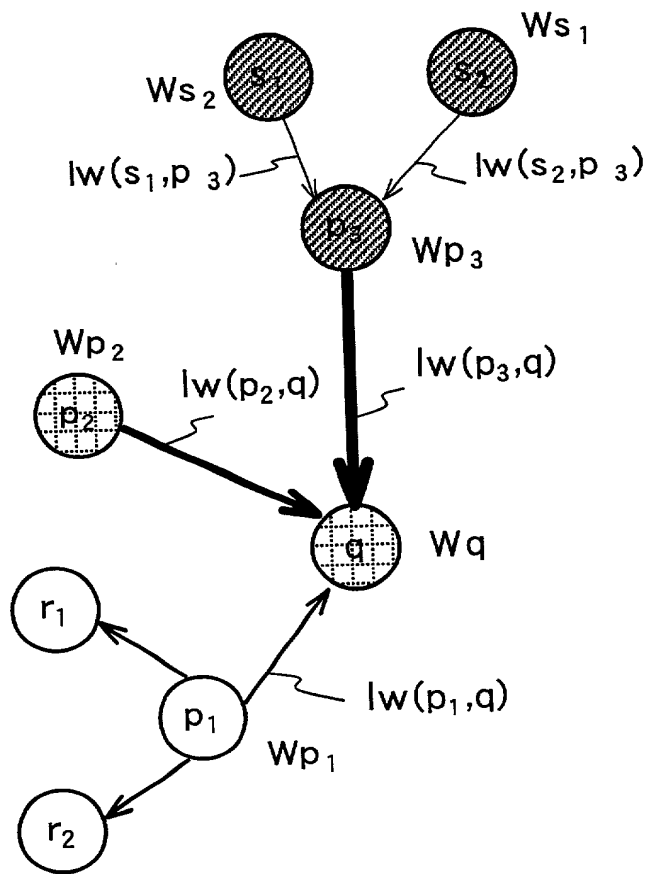


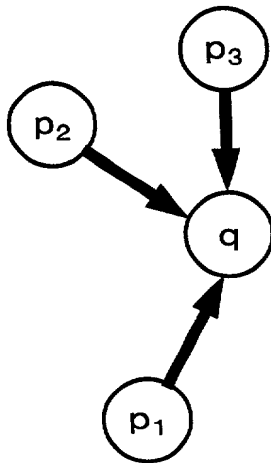
FIG. 7



CIRCLE(O) : WEB PAGE
 THICKNESS OF ARROW(\rightarrow) : LINK WEIGHT
 PATTERN OF CIRCLE(O) : URL SIMILARITY

FIG. 8

$$\text{sim}(p_i, q) = 1$$

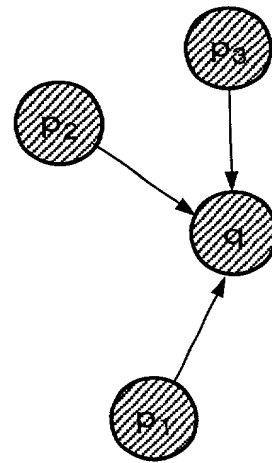


$$lw(p_i, q) = \frac{1}{sim(p_i, q)} = 1$$

$$W_q = C_q + W_{p1} + W_{p2} + W_{p3}$$

FIG. 9A

$\text{sim}(p_i, q) = n + 1$



$$lw(p_i, q) = \frac{1}{sim(p_i, q)} = \frac{1}{n+1}$$

$$w_q = C_q + \frac{w_{p1} + w_{p2} + w_{p3}}{n+1}$$

FIG. 9B

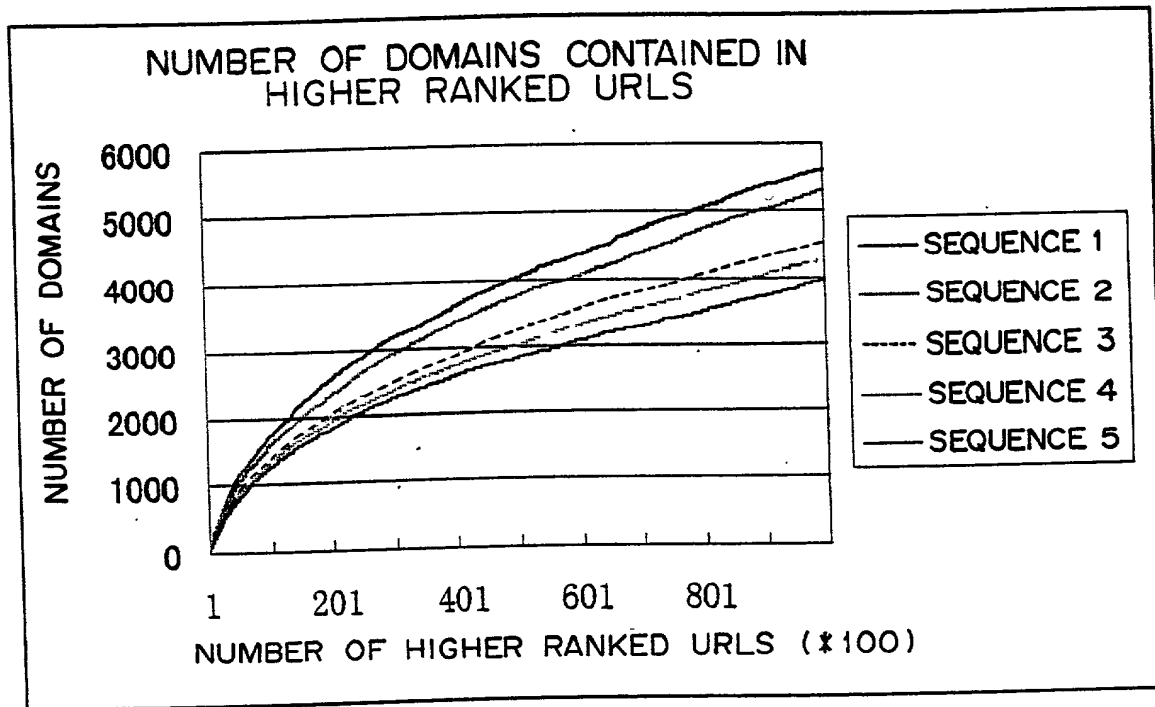


FIG. 10

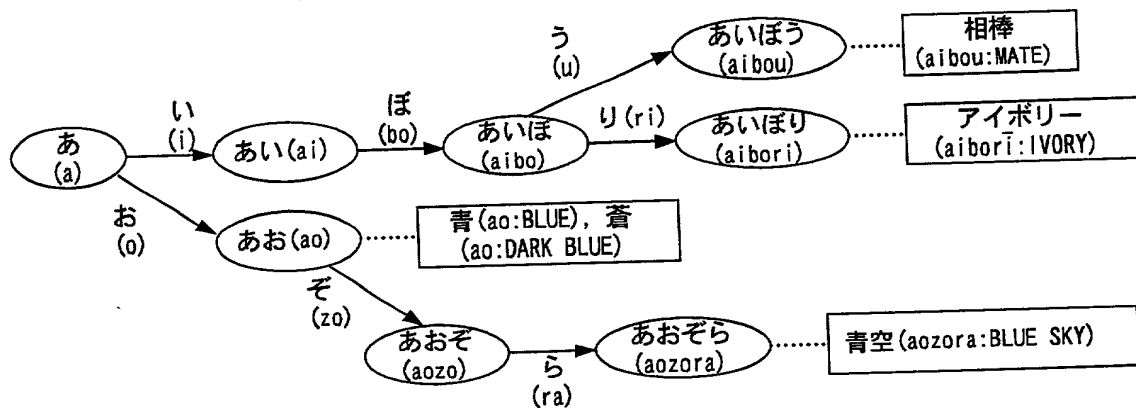


FIG. 11A

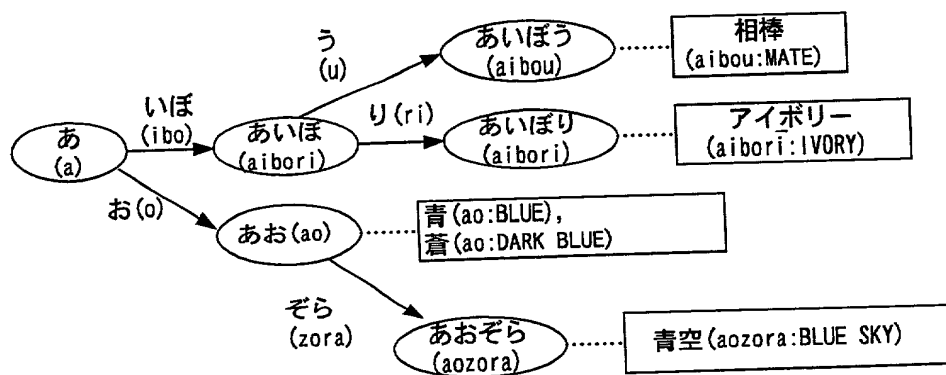


FIG. 11B

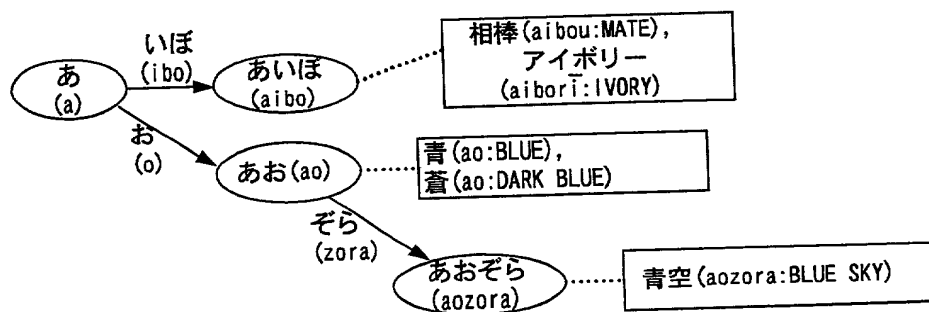


FIG. 11C

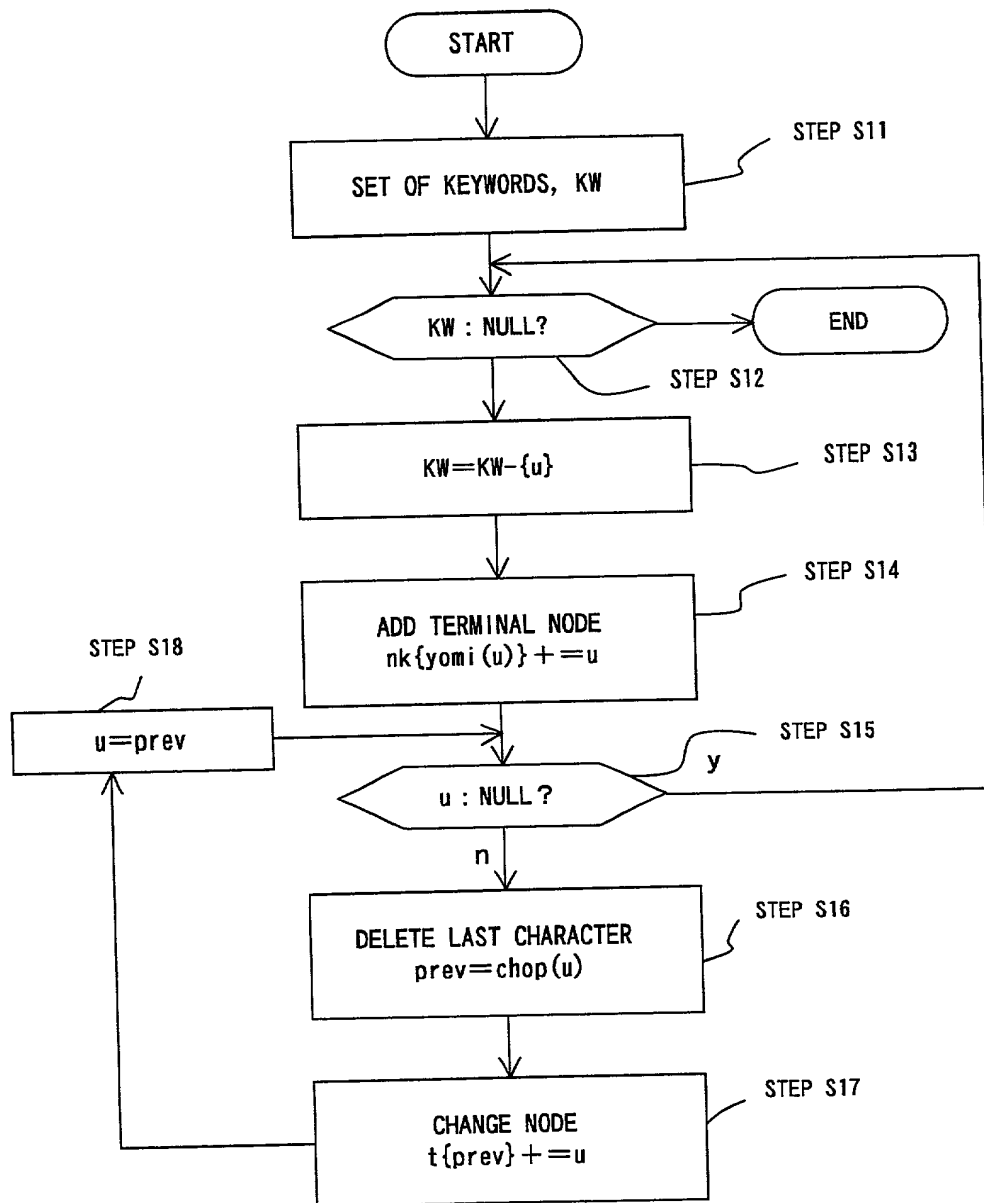


FIG. 12

```

proc init_kw_graph ( )
{
  @KW:set of keywords;      # SET OF KEYWORDS
  yomi : YOMI/SPELL of keywords; # FUNCTION OR ARRAY THAT RETURNS PRONUNCIATION CHARACTERS OF KEYWORD
  foreach u in KW {
    nk{yomi{u}} := u."."; # DESIGNATE nk() OF NODE OF PRONUNCIATION CHARACTERS OF KEYWORD u
    for ( i=0; i<length(u); i++) { # REPEAT FOR LENGTH OF CHARACTER STRING OF KEYWORD u
      local prev = chop(u); # DELETE LAST CHARACTER OF KEYWORD u AND ADD TO PARENT NODE
      t{prev} := u.".";
      u = prev;
    }
  }
}

```

FIG. 13

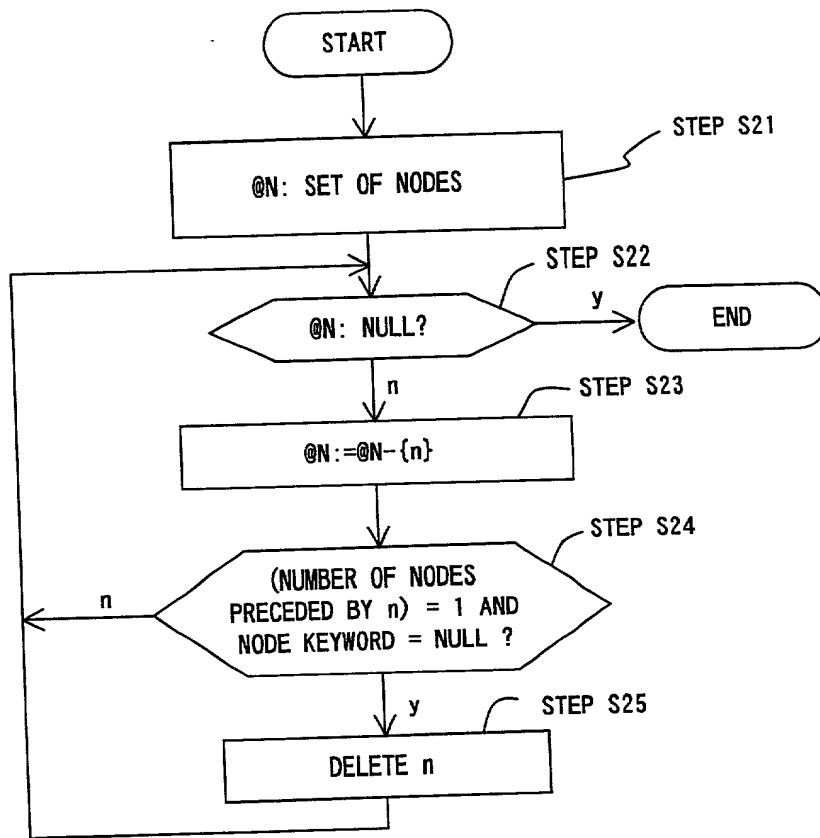


FIG. 14

```

proc shrink_middle ()
{
  @N : set of nodes
  foreach n (@N) {
    next=t{n};    # NEXT NODE LIST
    kw=nk{n};     # KEYWORD LIST
    if (length(next) ==1 && kw == "") {
      delete(n)   # DELETE NODE n
    }
  }
}

```

FIG. 15

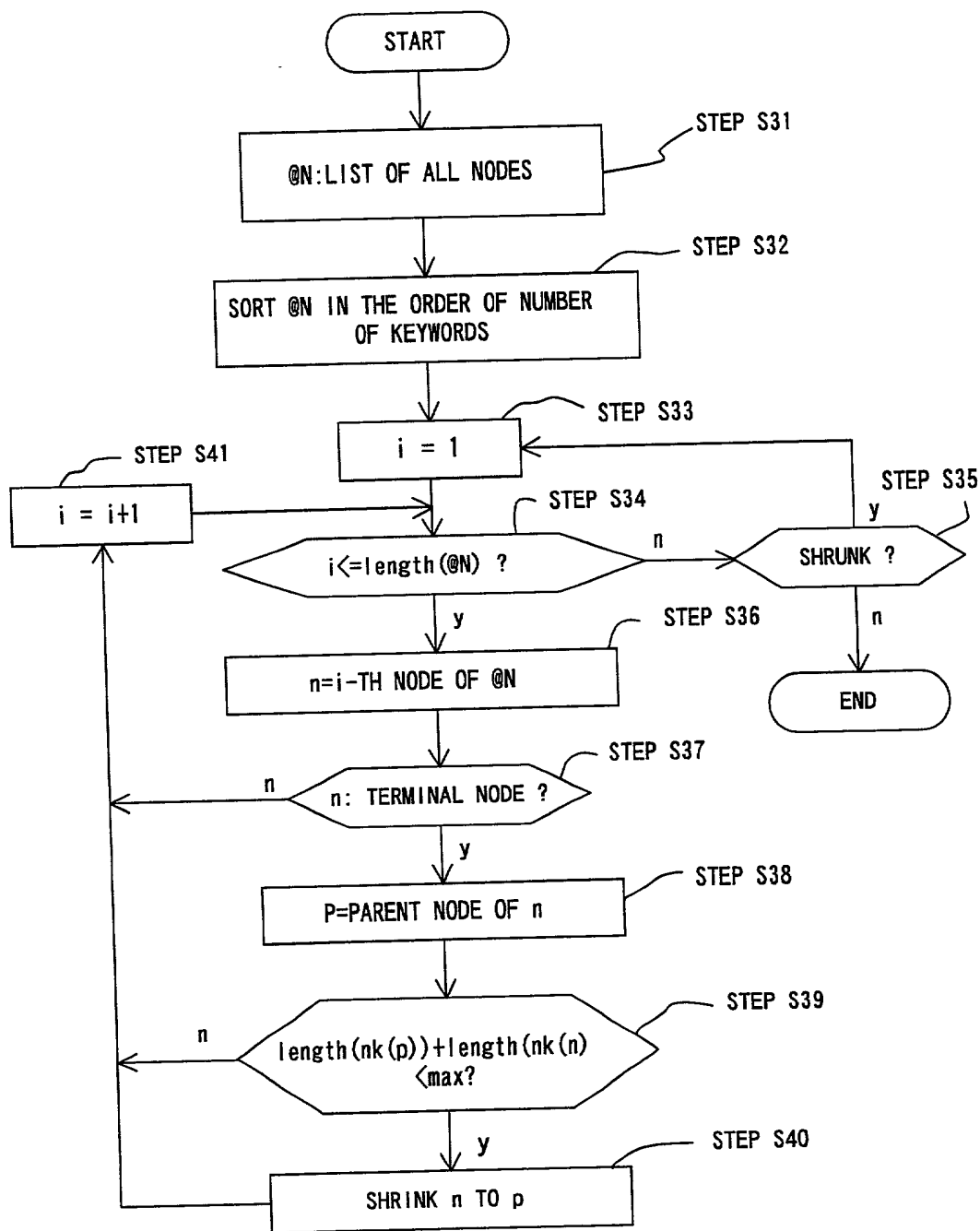


FIG. 16


```

proc shrink_leaf ()
{
    @N: set of nodes;      # NODE LIST
    word_max=2;            # word_max : IN THIS EXAMPLE, 2
    changed=true;          # WHEN KEYWORD IS TRANSFERRED, true
    @N= sort by _nk_length @N; # SORTING IN ASCENDING ORDER OF NUMBER OF KEYWORDS
    while (changed) {
        # CONTINUING WHILE TRANSFER IS PERFORMED
        changed = false;
        foreach n in @N {
            # IN THE CASE OF TERMINAL NODE
            if (is_leaf(n)) {
                # PARENT NODE
                p=parent_node(n);
                if (length(nk{p}) + length(nk{n}) < word_max) {
                    nk{p}=nk{p}."+"; # TRANSFERRING KEYWORD
                    delete (n);      # DELETE TERMINAL NODE
                    changed = true;   # PROOF OF TRANSFER
                }
            }
        }
    }
}

```

FIG. 17

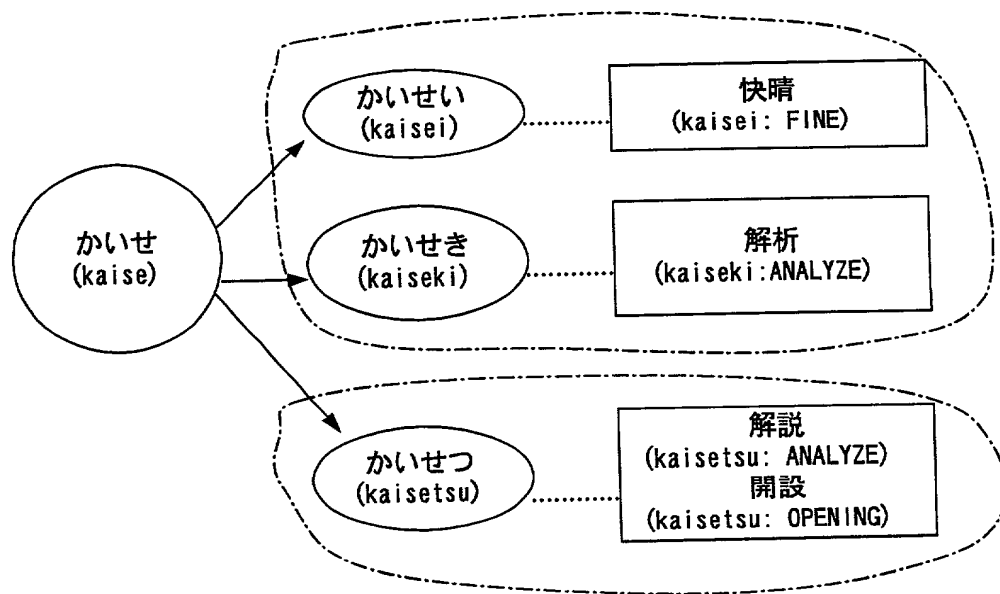


FIG. 18

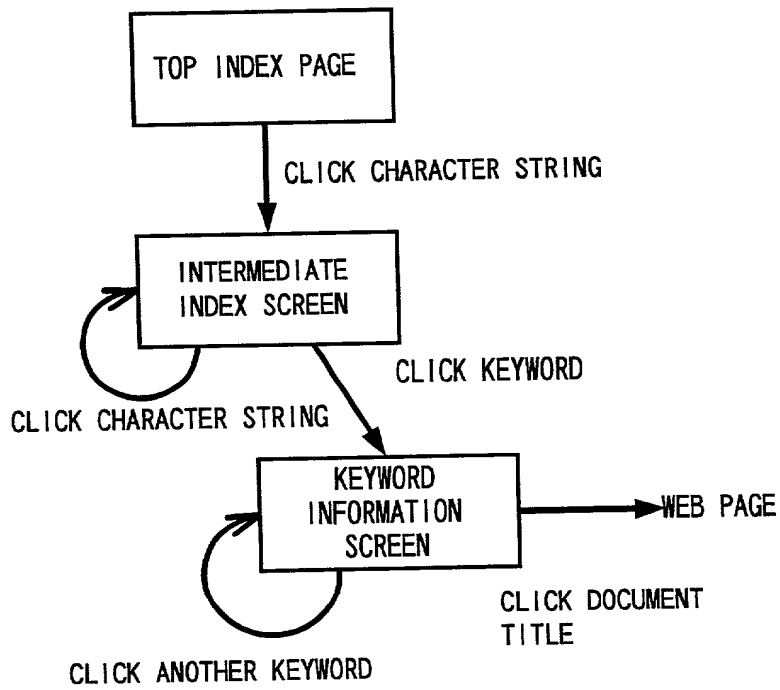


FIG. 19

INTRANET DOCUMENT SEARCH

あ (a)	い (i)	う (u)	え (e)	お (o)
か (ka)	き (ki)	く (ku)	け (ke)	こ (ko)
.....				
わ (wa)				
A	B	C	D	E
.....				
X	Y	Z		
0	1	2	...	9

CLICK AND SELECT
FIRST PRONUNCIATION
CHARACTER (SPELLING)

TOP INDEX SCREEN

FIG. 20

INTELLECTUAL 50-KANA CHARACTER INDEX OF INTRA-COMPANY PAGES

あ (a)	い (i)	う (u)	え (e)	お (o)	が (ga)	ぎ (gi)	ぐ (gu)	げ (ge)	ご (go)	(NOTE) " " LONG SOUND SHOULD BE REMOVED. SELECT "つ (tu)" AND "や (ya)" FOR "つ (tu)" AND "や (ya)".
か (ka)	き (ki)	く (ku)	け (ke)	こ (ko)	ざ (za)	じ (ji)	ず (zu)	ぜ (ze)	ぞ (zo)	
さ (sa)	し (shi)	す (su)	せ (se)	そ (so)	だ (da)	で (de)	ど (do)			
た (ta)	ち (chi)	つ (tsu)	て (te)	と (to)						
な (na)	に (ni)	ぬ (nu)	ね (ne)	の (no)	ば (ba)	び (bi)	ぶ (bu)	べ (be)	ぼ (bo)	
は (ha)	ひ (hi)	ふ (fu)	へ (he)	ほ (ho)						
	び (bi)	ぶ (bu)	べ (be)	ぼ (bo)						
ま (ma)	み (mi)	む (mu)	め (me)	も (mo)						
や (ya)	ゆ (yu)	よ (yo)								
ら (ra)	り (ri)	る (ru)	れ (re)	ろ (ro)						
わ (wa)										

A B C D E F G H I J K L M N O P Q R S T U V W X
 1 2 3 8 s

SEARCH FOR A KEYWORD INCLUDING

CLEAR

FIG. 21

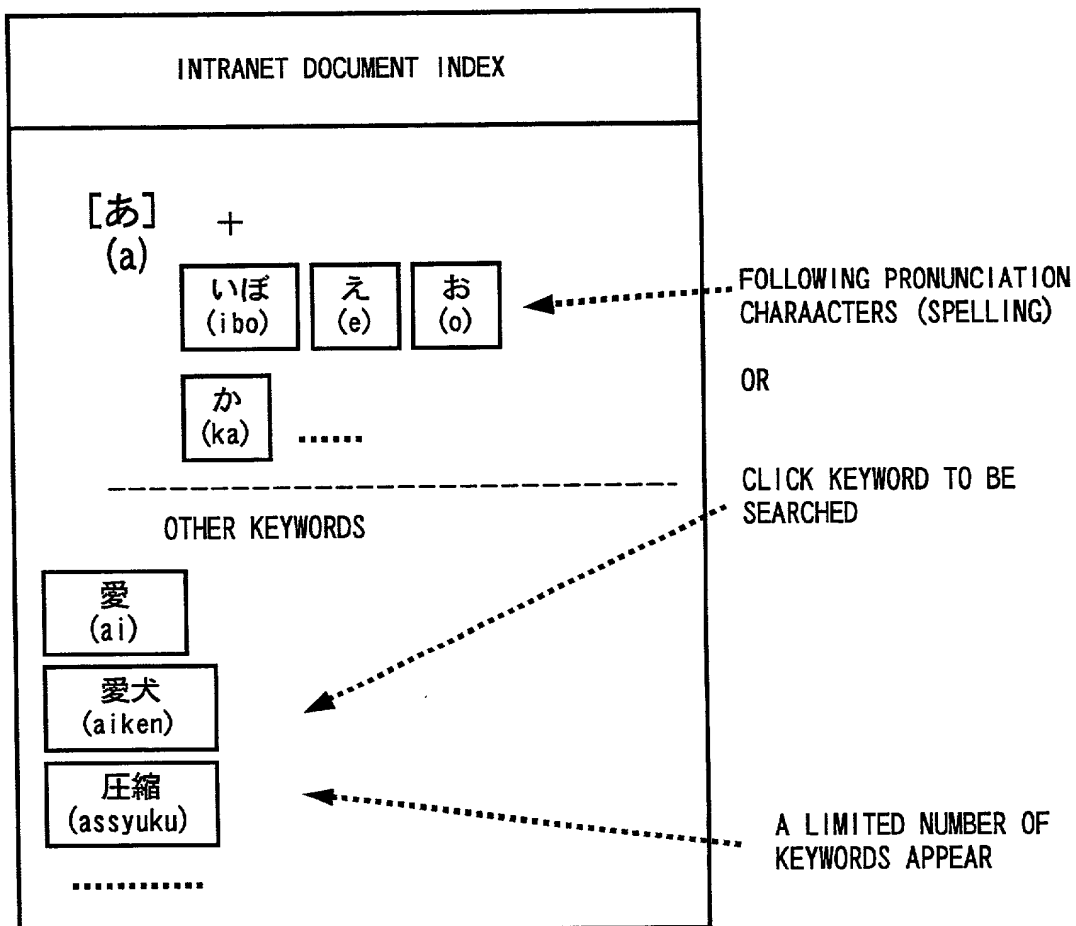


FIG. 22

"い" (i)		(NOTE) "-" LONG SOUND SHOULD BE REMOVED. SELECT "っ(tu)" AND "や(ya)" FOR "っ(tu)" AND "や(ya)".
<p>い(i) え(e) ろ(ro)</p> <p>か(ka) き(ki) く(ku) け(ke) こ(ko) う(u) が(ga) ぎ(gi) ご(go)</p> <p>さ(sa) し(shi) す(su) せ(se) じ(ji)</p> <p>た(ta) ち(chi) っ(tsu) で(de) ん(un) ど(do)</p> <p>に(ni) の(no)</p> <p>ば(ba) べ(be) ん(un) と(to)</p> <p>み(mi) め(me) じ(ji)</p> <p>や(ya) ゆ(yu) よ(yo)</p> <p>ら(ra) り(ri) る(ru) れ(re)</p> <p>わ(wa) ん(un)</p>		
OTHER KEYWORDS		
<ul style="list-style-type: none"> ・イオン(ion) ・イネーブル(inēburu) ・伊豆(izu) ・位相(isou) ・依存(izonn) ・依存性(izonnsei) 	<ul style="list-style-type: none"> ・意図(ito) ・意欲(iyoku) ・移転(itenn) ・違反(ihann) ・違反行為(ihannkouei) ・遺族(izoku) 	<ul style="list-style-type: none"> ・医薬(iyaku) ・医用(iyou) ・稲城長沼(inaginaganuma) ・急ぎ(isogi) ・居酒屋(izakaya) ・指宿(ibusuki)
		<ul style="list-style-type: none"> ・色刺激(iroshigeki) ・田舎(inaka)

FIG. 23

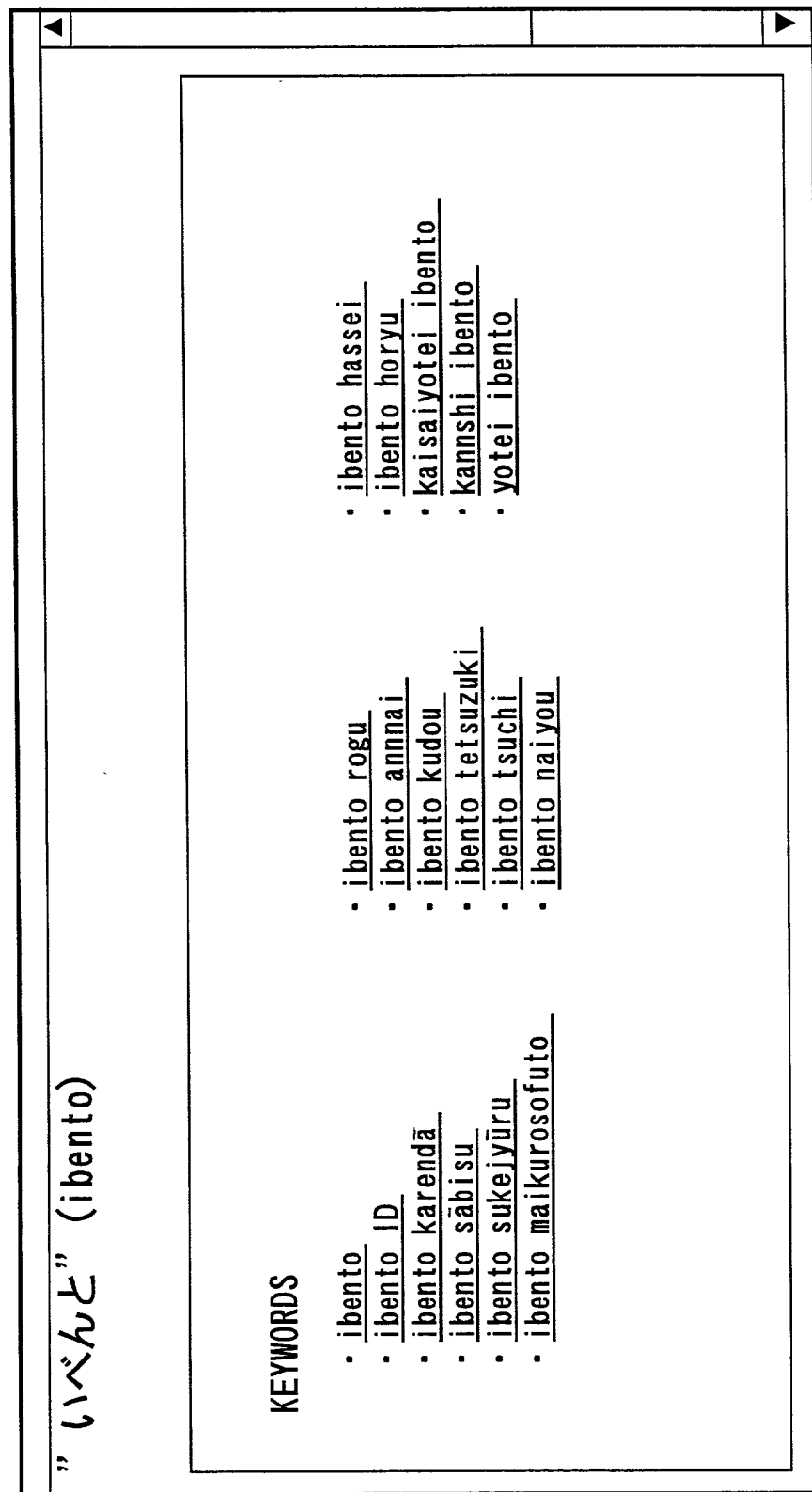


FIG. 24

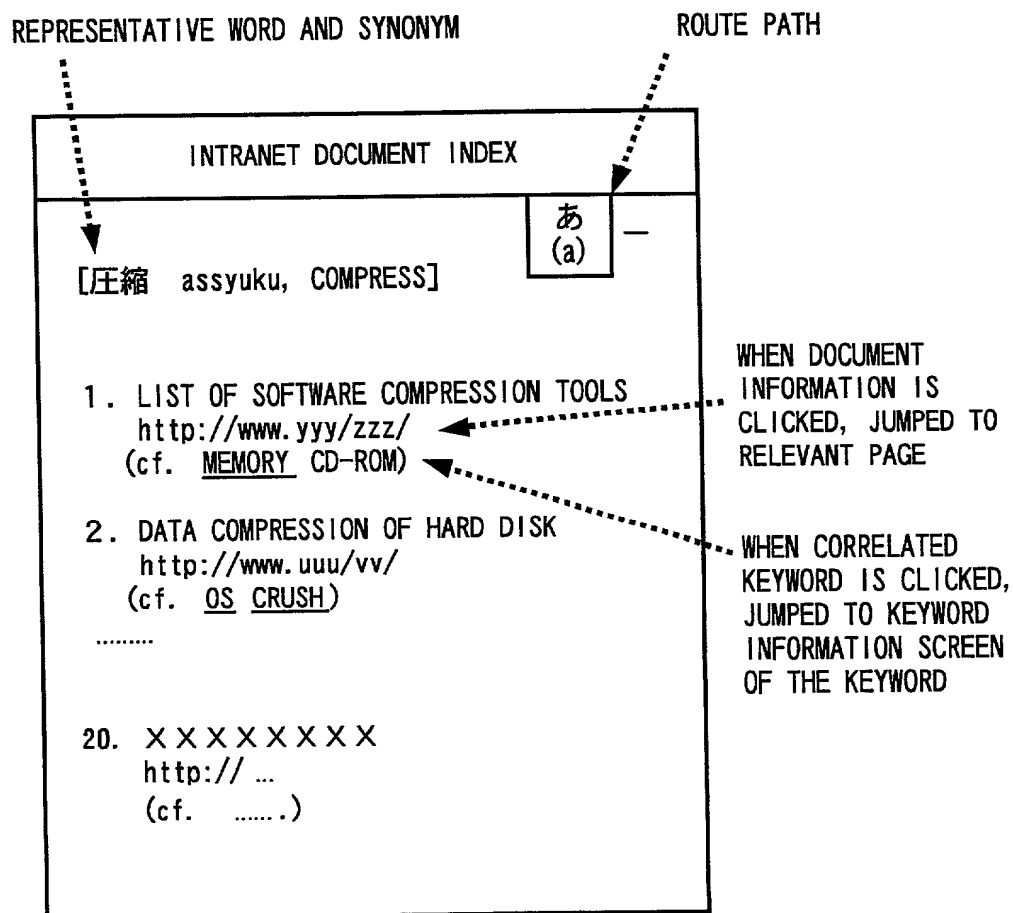


FIG. 25

トップ (toppu) - イ(i) - イベント (ibento)

「イベントカレンダー」

(IBENTO KARENDĀ : EVENT CALENDAR)

MAJOR PAGES ABOUT "イベントカレンダー"

- <http://www.paso.co.jp/event/2000.html> (03/17/1999)
2000 NEN KARENDĀ : CALENDAR OF YEAR 2000
(KEYWORDS : ソフトウェア (software), 展示会 (tenjikai : EXHIBITION))
- <http://www.cal.co.jp/event9907.html> (06/23/1999)
7 GATSU NO MOYOUSHI : EVENT ON JULY
(KEYWORDS : 音楽会 (ongakukai : CONCERT), コンサート (konsāto : CONCERT))
- http://www.yohoo.co.jp/event/_06/23/1999
イベントリスト (ibento risto : EVENT LIST)

FIG. 26

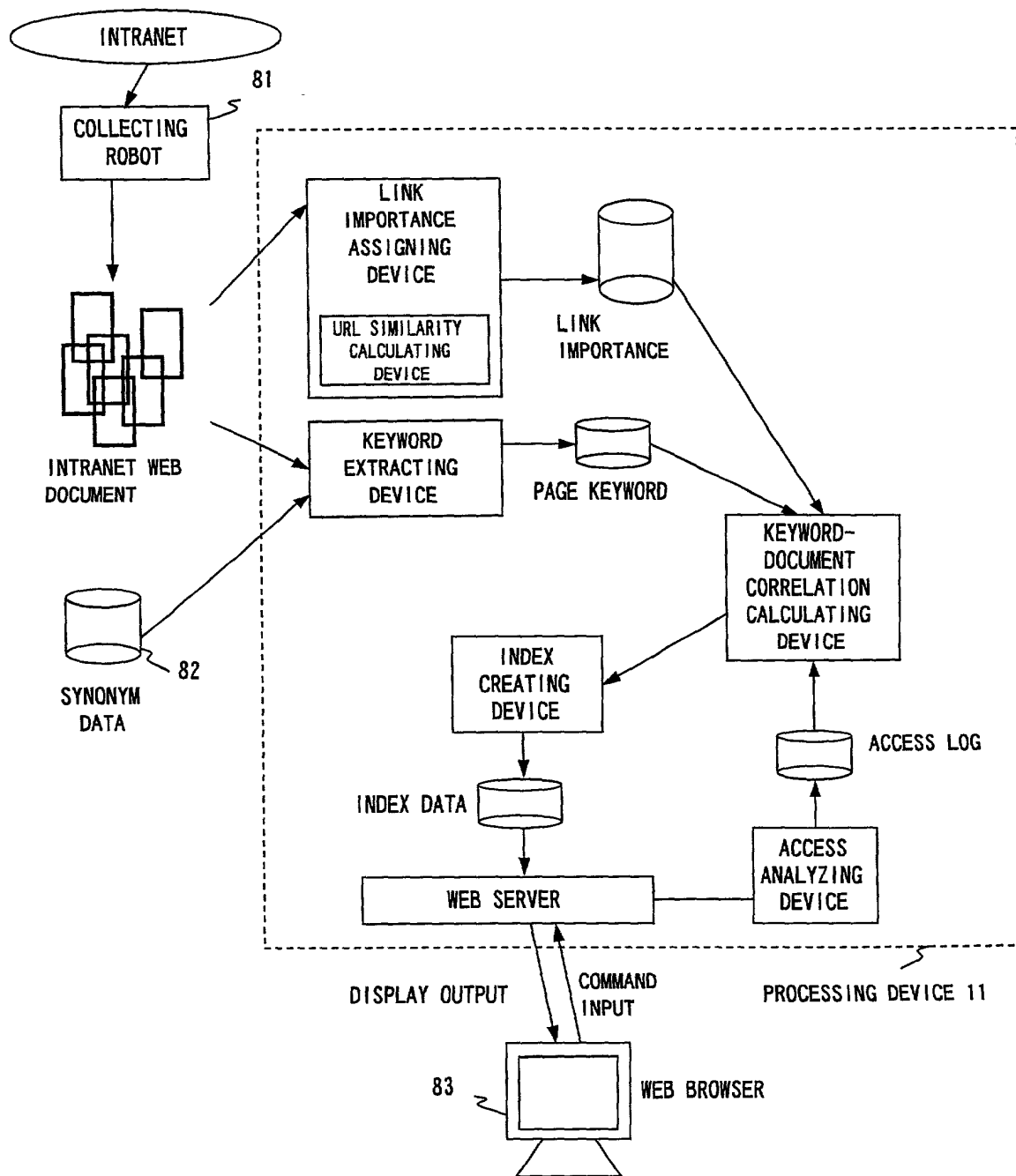
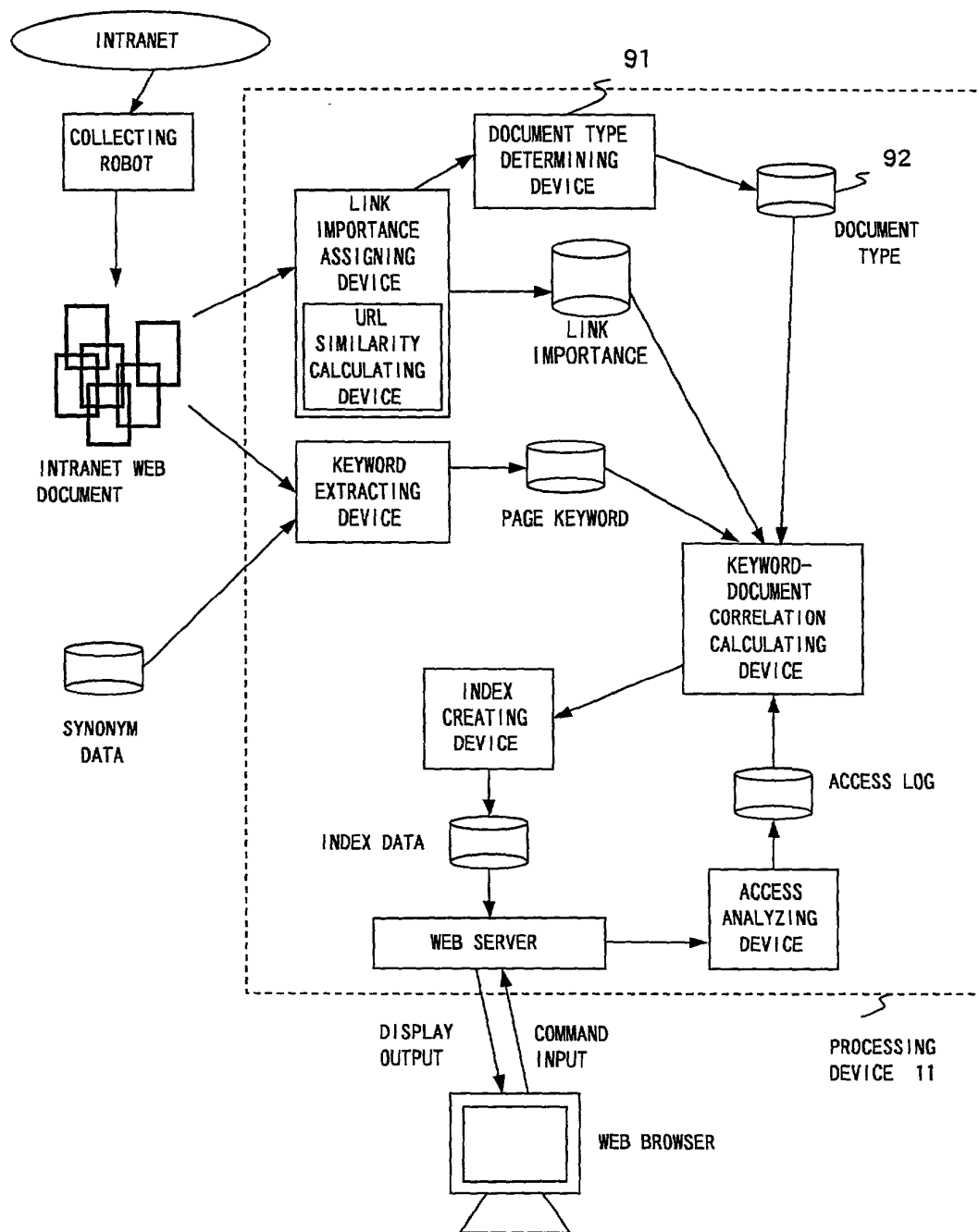


FIG. 27



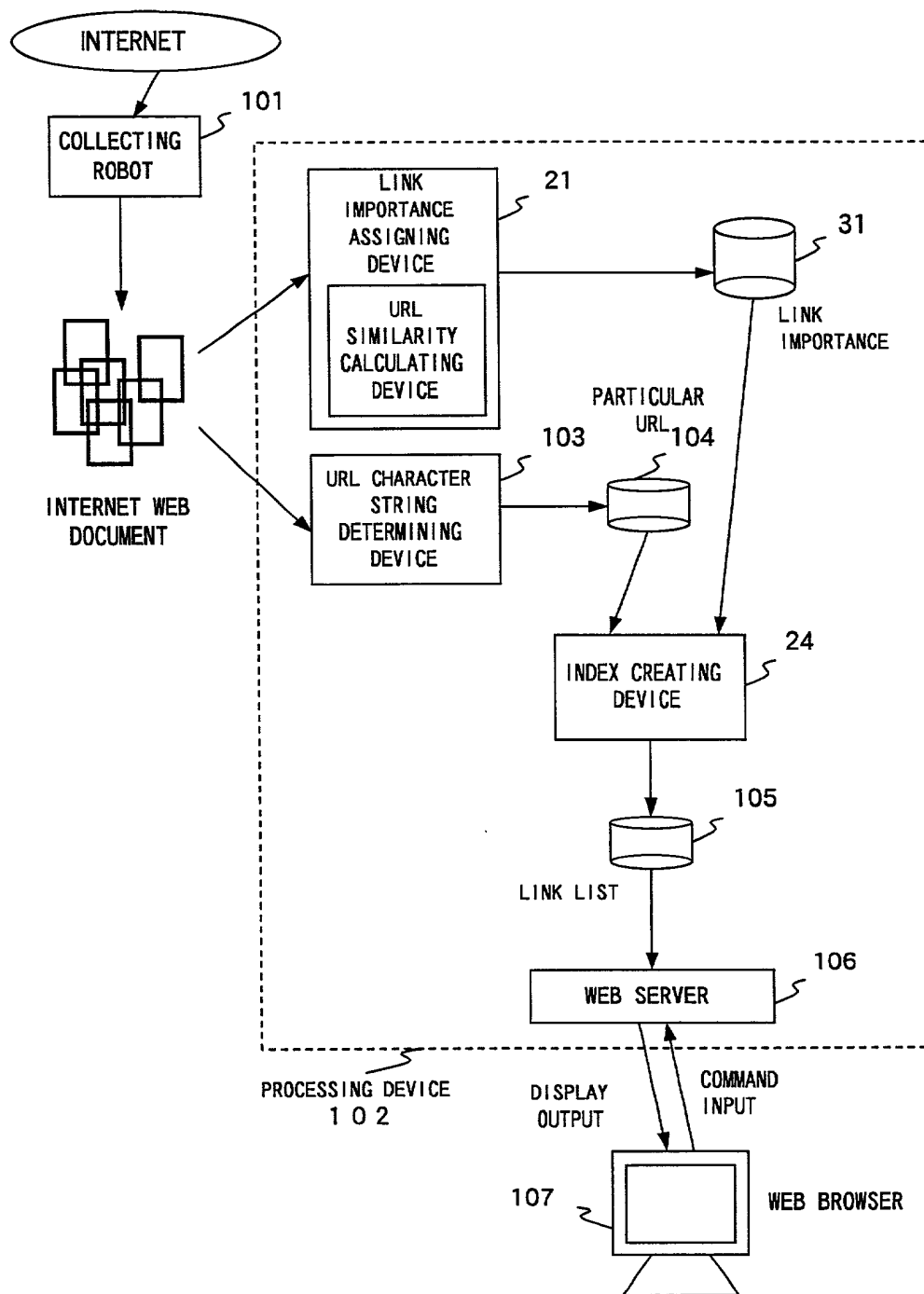


FIG. 29

FIG. 30

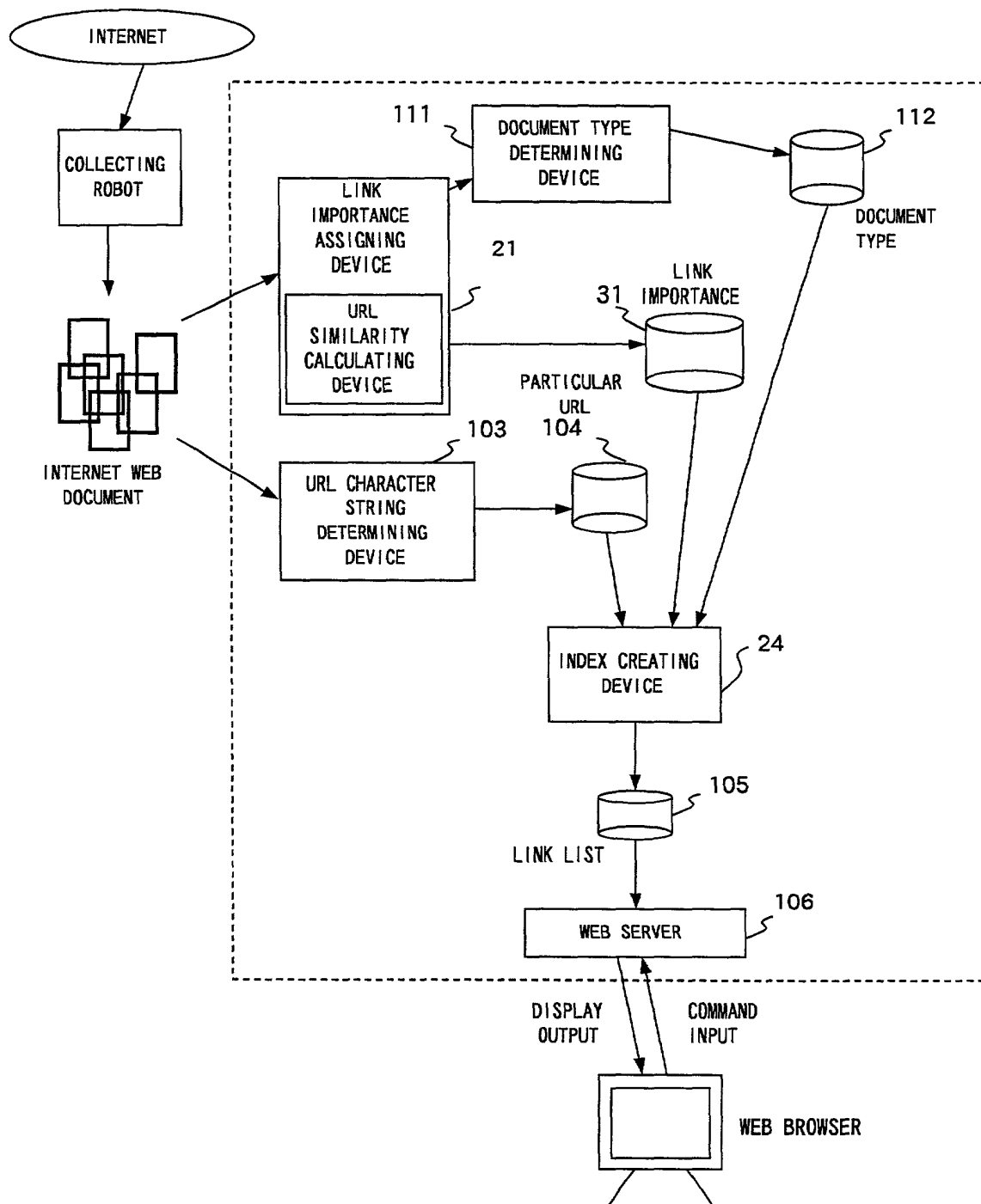


FIG. 30

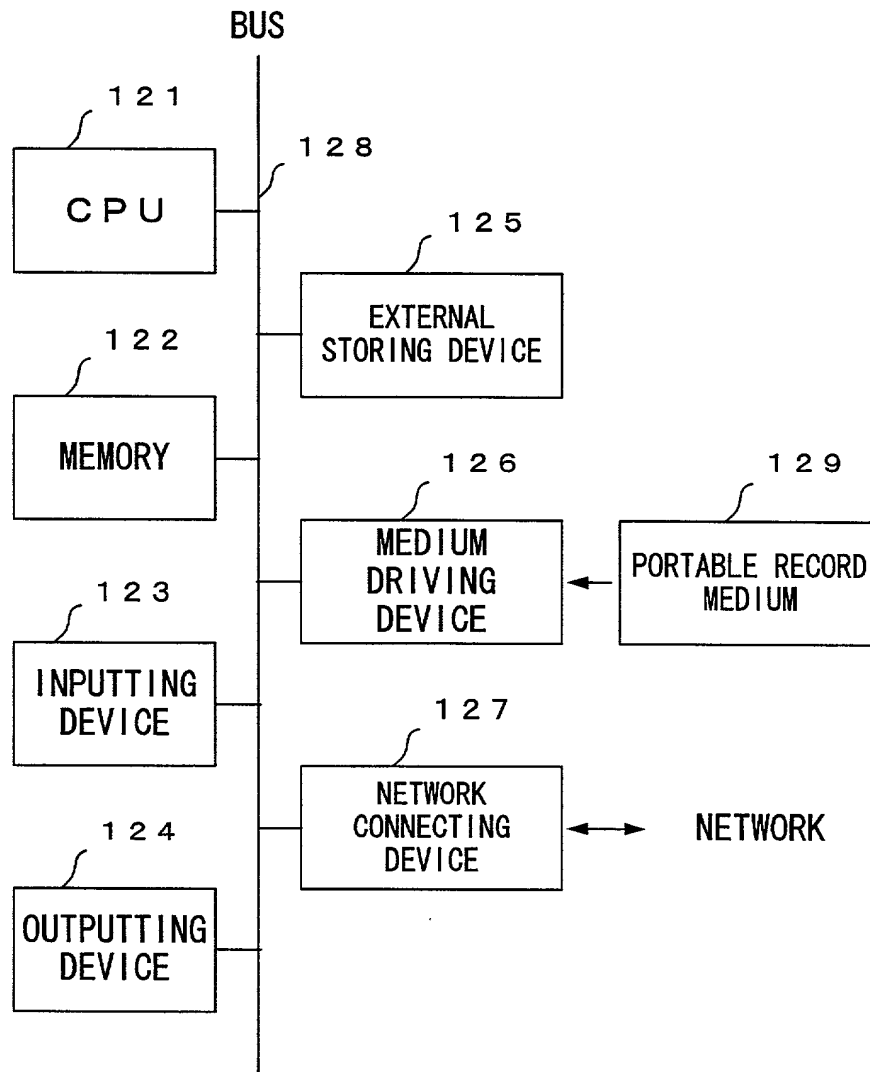


FIG. 31

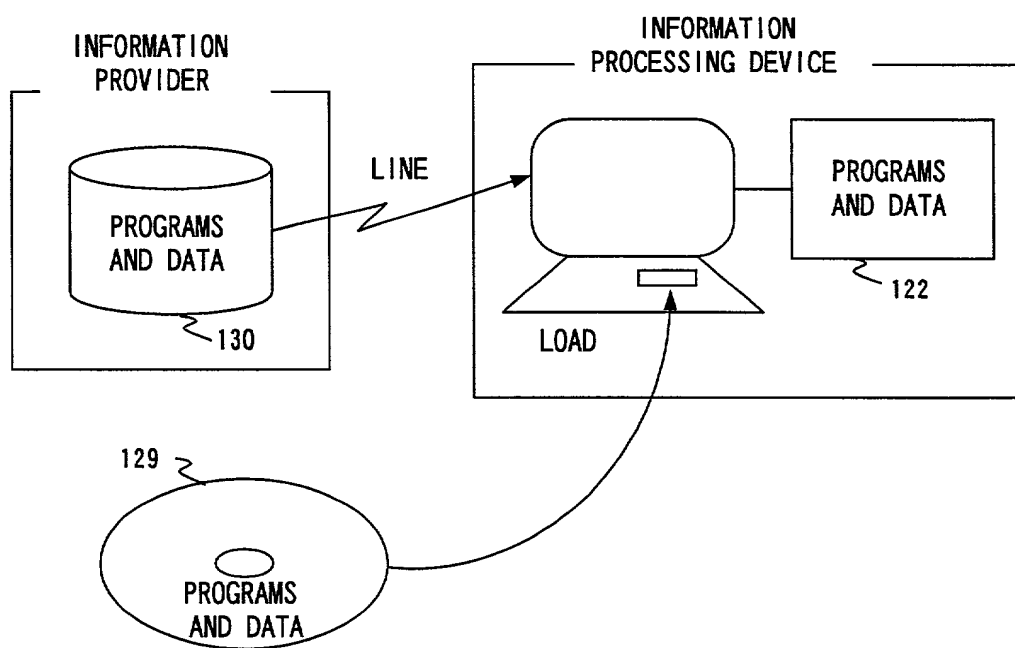


FIG. 32